



# Ohio Department of Natural Resources

JOHN R. KASICH, GOVERNOR

SCOTT A. ZODY, INTERIM DIRECTOR

October 28, 2011

## Division of Oil and Gas Resources Management

*J. Michael Biddison, Chief*

2045 Morse Road, Bldg. H-3

Columbus, OH 43229-6693

Phone: (614) 265-6633 Fax: (614) 265-7998

RECEIVED

NOV 02 2011

UIC BRANCH  
EPA, REGION 5

Ms. Eva-Marie Rowe  
U.S. EPA, Region 5  
77 West Jackson Blvd.  
Chicago, IL 60604-3590  
ATTN: 5WU-16J

Dear Ms. Rowe:

Enclosed please find the reporting forms for the complete year of Federal Fiscal Year 2011 that covers Class II and Class III wells in Ohio. Please note that separate forms were completed for Class II Annular Disposal wells. Additionally, I have included the UIC well inventory and Final Technical Report. Please note our name change to the Division of Oil and Gas Resources Management.

If you have any questions regarding this matter, please feel free to contact me at (614) 265-1032.


Sincerely,

A handwritten signature in black ink, appearing to read "Tom Tomastik", with a long horizontal line extending from the end of the signature.

Tom Tomastik, Geologist  
UIC Section  
Ohio Division of Oil and Gas Resources Management  
2045 Morse Road, H-3  
Columbus, Ohio 43229-6693

Enclosures

Cc: Tom Tugend, Deputy Chief  
File

 <div style="border: 1px dashed black; padding: 5px; text-align: center;"> <b>UIC Federal Reporting System</b>  <b>Part I: Permit Review and Issuance/</b>  <b>Wells In Area of Review</b> </div>					<b>I. Name and Address of Reporting Agency</b> Ohio Department of Natural Resources Division of Oil and Gas Resources Management 2045 Morse Road, H-3 Columbus, Ohio 43229-6693								
<b>II. Date</b> October 28, 2011			<b>III. State contact/phone</b> (614) 265-1032		<b>IV. Reporting period (month, year)</b> <table border="1" style="width: 100%;"> <tr> <td><b>FROM</b></td> <td><b>TO</b></td> </tr> <tr> <td>October 1, 2010</td> <td>09/30/2011</td> </tr> </table>					<b>FROM</b>	<b>TO</b>	October 1, 2010	09/30/2011
<b>FROM</b>	<b>TO</b>												
October 1, 2010	09/30/2011												
<b>ITEM</b>					<b>Class and Type of Injection Wells</b>								
					<b>AD</b>	<b>II</b>			<b>III</b>	<b>IV</b>	<b>V</b>		
<b>SWD 2D</b>	<b>ER 2R</b>	<b>HC 2H</b>											
<b>V. Permit Application</b>		<b>Number of Permit Applications Received</b>			4								
<b>VI. Permit Determination</b>	<b>Permit Issued</b>	<b>A</b>	<b># of Individual Permits Issued (one well)</b>	New wells	4								
				Existing wells	0								
		<b>B</b>	<b># of area permits issued (multiple wells)</b>	New well field	0								
				Existing field	0								
		<b>C</b>	<b># of wells in area permits</b>	New wells	0								
				Existing wells	0								
	<b>Permit not issued</b>	<b>D</b>	<b># of permits denied/withdrawn (after complete technical review)</b>	0									
	<b>Modification Issued</b>	<b>E</b>	<b># of Major Permit Modifications Approved</b>	0									
<b>VII. Permit File Review</b>	<b>Number of Class II Wells Reviewed</b>			Wells reviewed	258								
				Wells deficient	0								
<b>VIII. Area Of Review (AOR)</b>	<b>Wells Reviewed</b>	<b>A</b>	<b># of wells in Area of Review</b>	Abandoned Wells	0								
				Other wells	0								
	<b>Wells Identified For C/A</b>	<b>B</b>	<b># of wells identified for Corrective Action</b>	Abandoned Wells	0								
				Other wells	0								
	<b>Wells with C/A</b>	<b>C</b>	<b>1. # of wells in AOR w/ casing repaired/re-cemented C/A</b> <b>2. # of active wells in AOR Plugged/Abandoned</b> <b>3. # of abandoned wells in AOR re-plugged</b> <b>4. # of wells in AOR with "other" corrective action</b>	0									
				0									
				0									
				0									
	<b>IX. Remarks</b>												


**CERTIFICATION**

I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature and Typed or Printed Name and Title of Person Completing Form



Tom Tomastik, Geologist 10/28/2011 (614) 265-1032

 <b>UIC Federal Reporting System</b> <b>Part II: Compliance Evaluation</b>					<b>I. Name and Address of Reporting Agency</b> Ohio Department of Natural Resources Division of oil and Gas Resources Management 2045 Morse Road, H-3 Columbus, Ohio 43229-6693																				
<b>II. Date</b> October 28, 2011			<b>III. State contact/phone</b> Tom Tomastik (614) 265-1032		<b>IV. Reporting period (month, year)</b> <table border="1"> <tr> <th colspan="4">FROM</th> <th colspan="3">TO</th> </tr> <tr> <td colspan="4">October 1, 2010</td> <td colspan="3">09/30/2011</td> </tr> </table>							FROM				TO			October 1, 2010				09/30/2011		
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<b>ITEM</b>					<b>Class and Type of Injection Wells</b>																				
					<b>AD</b>	<b>II</b>			<b>III</b>	<b>IV</b>	<b>V</b>														
<b>SWD 2D</b>	<b>ER 2R</b>	<b>HC 2H</b>																							
<b>V.</b> Summary Of Violations	Total Wells	A	Number of wells with violations	11																					
	Total Violations	B	1. # of unauthorized injection violations	0																					
			2. # of Mechanical Integrity violations	11																					
			3. # of operations and maintenance violations	0																					
			4. # of plugging and abandonment violations	0																					
			5. # of monitoring and reporting violations	0																					
			6. # of other violations (specify)	0																					
<b>VI.</b> Summary Of Enforcement	Total Wells	A	# of wells with Enforcement Actions	11																					
	Total Enforcement Actions	B	1. # of notices of Violation	0																					
			2. # of Consent Agreements	0																					
			3. #Administrative Orders	11																					
			4. # of Civil Referrals	0																					
			5. # of Criminal Referrals	0																					
			6. # of Well Shut-Ins	0																					
			7. # of Pipeline Severances	NA																					
			8. # of other enforcement actions (specify)	0																					
<b>VII.</b> Summary of Compliance	# of wells returned to compliance	A. This Quarter	5																						
		B. This Year	10																						
<b>VIII.</b> Contamination	# of cases of Alleged Contamination of a USDW			0																					
<b>IX. Remarks</b>																									

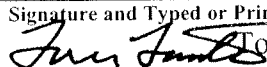
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Signature and Typed or Printed Name and Title of Person Completing Form

Date

Phone number

 Tom Tomastik, Geologist

10/28/2011

(614) 265-1032



**UIC Federal Reporting System  
Part II: Compliance Evaluation  
Significant Noncompliance**

**I. Name and Address of  
Reporting Agency**

Ohio Department of Natural Resources  
Division of Oil and Gas Resources Management  
2045 Morse Road, H-3  
Columbus, Ohio 43229-6693

**II. Date**  
October 28, 2011

**III. State  
contact/phone**  
Tom Tomastik  
(614) 265-1032

**IV. Reporting period (month, year)**

FROM	TO
October 1, 2010	09/30/2011


ITEM				Class and Type of Injection Wells						
				AD	II			III	IV	V
					SWD 2D	ER 2R	HC 2H			
V.  Summary Of Significant Non- Compliance  (SNC)	Total Wells	A	Number of Wells with SNC Violations	11						
		B	1. # of unauthorized SNC violations	0						
	2. # of Mechanical Integrity SNC violations		11							
	3. # of Injection Pressure SNC violations		0							
	4. # of plugging and abandonment SNC violations		0							
	5. # of SNC violations of Formal Orders		0							
	6. # of Falsification SNC Violations		0							
	7. # of Other SNC Violations (Specify)		0							
	Total Violations									
	VI.  Summary Of Enforcement Against SNC	Total Wells	A	# of wells with Enforcement Actions	11					
Total Enforcement Actions		B	1. # of notices of Violation	0						
			2. # of Consent Agreements/Orders	0						
			3. # of Administrative Orders	11						
			4. # of Civil Referrals	0						
			5. # of Criminal Referrals	0						
			6. # of Well Shut-Ins	0						
			7. # of Pipeline Severances	NA						
			8. # of other enforcement actions against SNC Violations (specify)	0						
VII. Summary of Compliance	# of wells in SNC Returned to Compliance	A. This Quarter	5							
B. This Year		10								
VIII. Contamination	# of cases of Alleged Contamination of a USDW			Involuntary Well Closure						
IX. Well closure	Class IV/Endangering Class V Well Closures			Voluntary Well Closure						

**CERTIFICATION**

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Signature and Typed or Printed Name and Title of Person Completing Form  
*San Tomastik* Tom Tomastik, Geologist

Date Phone number  
10/28/2011 (614) 265-1032

		<b>UIC Federal Reporting System</b> <b>Part III: Inspections</b> <b>Mechanical Integrity Testing</b>		<b>I. Name and Address of Reporting Agency</b> Ohio Department of Natural Resources Division of Oil and Gas Resources Management 2045 Morse Road, H-3 Columbus, Ohio 43229-6693																
				<b>II. Date Prepared (month, day, year)</b> October 28, 2011		<b>III. State contact/phone (name, telephone no.)</b> Tom Tomastik (614) 265-1032														
<b>IV. Reporting period (month, year)</b> FROM October 1, 2010		<b>TO</b> 09/30/2011		<b>Class and Type of Injection Wells</b>																
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AD	II			III	IV	V														
	SWD 2D	ER 2R	HC 2H																	
258																				
<b>ITEM</b>																				
<b>V.</b> Summary of Inspections	Total Inspections	<b>B</b>	1. # of Mechanical Integrity Tested (MIT) Witnessed		22															
			2. # of Emergency Response or Complaint Response Inspections		0															
			3. # of Well Constructions Witnessed		4															
			4. # of Well Pluggings Witnessed		13															
			5. # of Routine/Periodic Inspections		219															
	<b>VI.</b> Summary of Mechanical Integrity (MI)	Total Wells	<b>A</b>	Number of wells tested or evaluated for Mechanical Integrity		22														
<b>B</b>				# of rule authorized wells tested or evaluated for M I		NA														
		Passed 2-part test		NA																
Failed 2-part test		NA																		
For Significant Leak		<b>C</b>	1. # of annulus pressure monitoring record evaluations		Well passed	NA														
			Well failed		NA															
			2. # of Casing/Tubing Pressure Tests		Well passed	0														
			Well failed		0															
			3. # of Monitoring Record Evaluations		Well passed	NA														
			Well failed		NA															
			4. # of other significant leak tests/evaluations (specify)		Well passed	22*														
			Well failed		0*															
For Fluid Migration		<b>D</b>	1. # of cement record evaluations		Well passed	4														
			Well failed		0															
			2. # of temperature/noise log tests		Well passed	0														
			Well failed		0															
			3. # of Radioactive Tracer/Cement Bond Tests		Well passed	0														
			Well failed		0															
			4. # of other fluid migration tests /evaluations (specify)		Well passed	22*														
			Well failed		0*															
<b>VII.</b> Summary of Remedial Action	Total Wells	<b>A</b>	# of wells with remedial action		0															
	Total Remedial Actions		<b>B</b>	1. # of casing repaired/squeeze cement remedial actions		0														
				2. # of tubing/packer remedial actions		0														
				3. # of plugging/abandonment remedial actions		0														
				4. # of other remedial actions (specify)		0														

IX. Remarks

\* Positive Displacement Tests

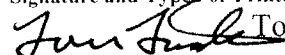
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Signature and Typed or Printed Name and Title of Person Completing Form

Date

Telephone number

 Tom Tomastik, Geologist

10/28/2010 (614) 265-1032




**UIC Federal Reporting System  
Part IV: Quarterly Exceptions**
**I. Reporting Period**
**From:**  
October 1, 2010

**To:**  
September 30, 2011

II.  Well Class and Type	III.  Name and Address of Owner/Operator	IV.  Well I.D. Number  (Permit Number)	V. Summary of Violations							VI. Summary of Enforcement							VII.  Date  Compliance  Achieved		
			Date of Violation	Mark "x" violation type						Date of Enforce ment	Mark "x" enforcement type								
				Unauthorized injection	Well Mechanical Integrity	Injection Pressure	Plugging & Abandonment	Formal Order	Falsification	Other (Specify)	Notice of Violation	Consent agreement	Administrative Code	Civil Referral	Criminal Referral	Well shut-in	Pipeline Severeance	Other (specify)	
	NONE																		

**Certification**

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**Signature of Person Completing Form**
**Typed or Printed Name and Title**

Tom Tomastik, Geologist

**Date**

October 28, 2011

**Telephone number**

(614) 265-1032

## **ANNULAR DISPOSAL WELLS**

**Federal Fiscal Year 2011 – October 1, 2010 to September 30, 2011**

**MITs Conducted = 22**

New Wells = 4                      Passed = 22    Failed = 0  
Existing wells = 18

**2<sup>nd</sup> Round MITs = 18**

Passed = 18  
Failed = 0

Did not test, so Annular Disposal Authorization Revoked = 15 wells


**Inspections:**    Revoked Annular Disposal Wells = 10  
                      New Well Permits Issued = 4  
                      Well Constructions witnessed = 4  
                      Mechanical Integrity Tests = 22  
                      Temporarily Abandoned Annular Disposal Well Inspections = 215  
                      Authorized well inspections = 4  
                      Routine inspections = 0

**Temporarily Abandoned Annular Disposal (TAAD) Wells:**

Total TAAD wells as of September 30, 2011 = 2,017 wells

**Total TAAD wells removed from TAAD status since October 1, 1992 = 8,170 wells**

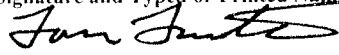
**Currently authorized Annular Disposal Wells as of September 30, 2011 = 83 wells**

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<b>ITEM</b>					<b>Class and Type of Injection Wells</b>								
					<b>AD</b>	<b>II</b>			<b>III</b>	<b>IV</b>	<b>V</b>		
<b>SWD 2D</b>	<b>ER 2R</b>	<b>HC 2H</b>											
<b>V. Permit Application</b>		<b>Number of Permit Applications Received</b>			25	6		0					
<b>VI. Permit Determination</b>	<b>Permit Issued</b>	<b>A</b>	<b># of Individual Permits Issued (one well)</b>	New wells	20	6		0					
				Existing wells	0	0		0					
		<b>B</b>	<b># of area permits issued (multiple wells)</b>	New well field	0	0		0					
				Existing field	0	0		0					
		<b>C</b>	<b># of wells in area permits</b>	New wells	0	0		0					
				Existing wells	0	0		0					
	<b>Permit not issued</b>	<b>D</b>	<b># of permits denied/withdrawn (after complete technical review)</b>	0	0		0						
	<b>Modification Issued</b>	<b>E</b>	<b># of Major Permit Modifications Approved</b>	5	0		0						
<b>VII. Permit File Review</b>	<b>Number of Class II Wells Reviewed</b>			Wells reviewed	182	130		47					
				Wells deficient	0	0		0					
				<b>VIII. Area Of Review (AOR)</b>	<b>Wells Reviewed</b>	<b>A</b>	<b># of wells in Area of Review</b>	Abandoned Wells	36	1		0	
Other wells	79	18						0					
<b>Wells Identified For C/A</b>	<b>B</b>	<b># of wells identified for Corrective Action</b>	Abandoned Wells		0	0		0					
			Other wells		0	0		0					
<b>Wells with C/A</b>	<b>C</b>	1. # of wells in AOR w/ casing repaired/re-cemented C/A	0	0		0							
		2. # of active wells in AOR Plugged/Abandoned	0	0		0							
		3. # of abandoned wells in AOR re-plugged	0	0		0							
		4. # of wells in AOR with "other" corrective action	0	0		0							
<b>IX. Remarks</b> * - Fluid level Monitoring and/or field monitoring													

**CERTIFICATION**


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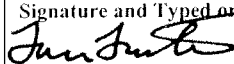
Tom Tomastik, Geologist


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<b>SWD 2D</b>	<b>ER 2R</b>	<b>HC 2H</b>											
<b>V. Summary Of Violations</b>	<b>Total Wells</b>	<b>A</b>	<b>Number of wells with violations</b>		36	10		0					
	<b>Total Violations</b>	<b>B</b>	<b>1. # of unauthorized injection violations</b>		0	1		0					
			<b>2. # of Mechanical Integrity violations</b>		16	1		0					
			<b>3. # of operations and maintenance violations</b>		20	8		0					
			<b>4. # of plugging and abandonment violations</b>		0	0		0					
			<b>5. # of monitoring and reporting violations</b>		0	0		0					
			<b>6. # of other violations (specify)</b>		0	0		0					
<b>VI. Summary Of Enforcement</b>	<b>Total Wells</b>	<b>A</b>	<b># of wells with Enforcement Actions</b>		36	10		0					
	<b>Total Enforcement Actions</b>	<b>B</b>	<b>1. # of notices of Violation</b>		23	10		0					
			<b>2. # of Consent Agreements</b>		0	0		0					
			<b>3. #Administrative Orders</b>		13	0		0					
			<b>4. # of Civil Referrals</b>		0	0		0					
			<b>5. # of Criminal Referrals</b>		0	0		0					
			<b>6. # of Well Shut-Ins</b>		0	0		0					
			<b>7. # of Pipeline Severances</b>		NA	NA		NA					
			<b>8. # of other enforcement actions (specify)</b>		0	0		0					
<b>VII. Summary of Compliance</b>	<b># of wells returned to compliance</b>	<b>A. This Quarter</b>		12	2		0						
		<b>B. This Year</b>		29	11		0						
<b>VIII. Contamination</b>	<b># of cases of Alleged Contamination of a USDW</b>				0	0		0					
<b>IX. Remarks</b>													

**CERTIFICATION**

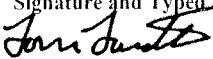
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<b>SWD 2D</b>	<b>ER 2R</b>	<b>HC 2H</b>											
<b>V.</b>  Summary Of Significant Non- Compliance (SNC)	Total Wells	<b>A</b>	<b>Number of Wells with SNC Violations</b>		17	3		0					
		<b>B</b>	1. # of unauthorized SNC violations		0	0		0					
	2. # of Mechanical Integrity SNC violations			16	1		0						
	3. # of Injection Pressure SNC violations			1	2		0						
	4. # of plugging and abandonment SNC violations			0	0		0						
	5. # of SNC violations of Formal Orders			0	0		0						
	6. # of Falsification SNC Violations			0	0		0						
	7. # of Other SNC Violations (Specify)			0	0		0						
	Total Violations												
<b>VI.</b>  Summary Of Enforcement Against SNC	Total Wells	<b>A</b>	# of wells with Enforcement Actions		17	3		0					
		<b>B</b>	1. # of notices of Violation		13	3		0					
	2. # of Consent Agreements/Orders			0	0		0						
	3. # of Administrative Orders			4	0		0						
	4. # of Civil Referrals			0	0		0						
	5. # of Criminal Referrals			0	0		0						
	6. # of Well Shut-Ins			0	0		0						
	7. # of Pipeline Severances			NA	NA		NA						
	8. # of other enforcement actions against SNC Violations (specify)			0	0		0						
<b>VII.</b> Summary of Compliance	# of wells in SNC Returned to Compliance	<b>A. This Quarter</b>			16	3		0					
		<b>B. This Year</b>			20	3		0					
<b>VIII.</b> Contamination	# of cases of Alleged Contamination of a USDW			<b>Involuntary Well Closure</b>									
<b>IX.</b> Well closure	Class IV/Endangering Class V Well Closures			<b>Voluntary Well Closure</b>									

**CERTIFICATION**

I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature and Typed or Printed Name and Title of Person Completing Form	Date	Phone number
 Tom Tomastik. Geologist	10/28/2011	(614) 265-1032



		<b>UIC Federal Reporting System</b> <b>Part III: Inspections</b> <b>Mechanical Integrity Testing</b>		<b>I. Name and Address of Reporting Agency</b> Ohio Department of Natural Resources Division of Oil and Gas Resources Management 2045 Morse Road, H-3 Columbus, Ohio 43229-6693								
<b>II. Date</b> October 28, 2011		<b>II. State contact/phone</b> Tom Tomastik (614) 265-1032		<b>IV. Reporting period (month, year)</b> <table border="1"> <tr> <td><b>FROM</b></td> <td><b>TO</b></td> </tr> <tr> <td>October 1, 2010</td> <td>09/30/2011</td> </tr> </table>					<b>FROM</b>	<b>TO</b>	October 1, 2010	09/30/2011
<b>FROM</b>	<b>TO</b>											
October 1, 2010	09/30/2011											
<b>ITEM</b>				<b>Class and Type of Injection Wells</b>								
				<b>AD</b>	<b>II</b> <table border="1"> <tr> <td><b>SWD 2D</b></td> <td><b>ER 2R</b></td> <td><b>H C 2 H</b></td> </tr> </table>			<b>SWD 2D</b>	<b>ER 2R</b>	<b>H C 2 H</b>	<b>III</b>	<b>I V</b>
<b>SWD 2D</b>	<b>ER 2R</b>	<b>H C 2 H</b>										
	Total Wells	A	Number of Wells Inspected		664	427		48				
<b>V.</b> Summary of Inspections	Total Inspections	B	1. # of Mechanical Integrity Tested (MIT) Witnessed		20	15		8				
			2. # of Emergency Response or Complaint Response Inspections		0	0		0				
			3. # of Well Constructions Witnessed		13	4		2				
			4. # of Well Pluggings Witnessed		1	2		4				
			5. # of Routine/Periodic Inspections		630	406		34				
<b>VI.</b> Summary of Mechanical Integrity (MI)	Total Wells	A	Number of wells tested or evaluated for Mechanical Integrity			182	130		47			
		B	# of rule authorized wells tested or evaluated for M I	Passed 2-part test		NA	NA		NA			
	Failed 2-part test				NA	NA		NA				
	For Significant Leak	C	1. # of annulus pressure monitoring record evaluations	Well passed		448	258		NA			
				Well failed		0	0		NA			
			2. # of Casing/Tubing Pressure Tests	Well passed		20	15		3			
				Well failed		0	0		0			
			3. # of Monitoring Record Evaluations	Well passed		182	130		47			
				Well failed		0	0		0			
			4. # of other significant leak tests/evaluations (specify)	Well passed		0	0		0			
				Well failed		0	0		0			
	For Fluid Migration	D	1. # of cement record evaluations	Well passed		20	0		4			
				Well failed		0	0		0			
			2. # of temperature/noise log tests	Well passed		0	0		0			
				Well failed		0	0		0			
			3. # of Radioactive Tracer/Cement Bond Tests	Well passed		6	0**		2 **			
				Well failed		0	0		0			
			4. # of other fluid migration tests /evaluations (specify) *	Well passed		0	0		6*			
Well failed					0	0		0*				
<b>VII.</b> Summary of Remedial Action	Total Wells	A	# of wells with remedial action			15	10		0			
	Total Remedial Actions	B	1. # of casing repaired/squeeze cement remedial actions			1	0		0			
			2. # of tubing/packer remedial actions			14	10		0			
			3. # of plugging/abandonment remedial actions			0	0		0			
			4. # of other remedial actions (specify)			0	0		0			
<b>IX. Remarks</b>												

\* - Freshwater –Brine Interface Class III MI test      \*\* - Cement Bond Logs


**CERTIFICATION**

I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature and Typed or Printed Name and Title of Person Completing Form

Date

Telephone number

 Tom Tomastik, Geologist

10/28/2011 (614) 265-1032

### I. Reporting Period

To:  
September 30, 2011

[illegible]

I certify that the statements I have made on this form and all attachments thereto are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Telephone number

(614) 265-1032

# UIC WELL INVENTORY NUMBERS U.S. EPA FFY 2011

Type	Under Construction	Active	Temporarily Abandoned	Number of Sites	Total	Total Plugged/Abandoned IN FFY 2011
Class II ER	6 wells	124 wells	0	130	130 wells	2 wells
Class II SWD	5 wells	177 wells	0	182	182 wells	3 well
Class II AD	0 wells	83 wells	2017 wells	2100	2100 wells	9 wells
Class III SMP	0 wells	47 wells	0	4	47 wells	3 wells

## **ANNUAL TECHNICAL REPORT – FEDERAL FISCAL YEAR 2011**

For Federal Fiscal Year (FFY) 2011, the Ohio Department of Natural Resources, Division of Oil and Gas Resources Management, in most cases, met or exceeded the Year 2011 Performance Measures and Outputs. Permitting activity for conventional Class II and Class II Annular Disposal wells are increasing. The Division issued 28 Class II and zero Class III permits during FFY 2011. UIC staff reviewed all permits applications internally and the Division's field staff witnessed the critical construction operations. During FFY 2011, the Division conducted over 1397 compliance reviews and inspections on Ohio's Class II, Class II Annular Disposal, and Class III wells. The State continued to witness 100% of the mechanical integrity tests. In FFY 2011, Division personnel witnessed a total of 65 Class II, Class II Annular Disposal, and Class III mechanical integrity tests. All conventional Class II wells are required to continuously monitor the annulus pressure or perform monthly minitests to demonstrate mechanical integrity. Class II Annular Disposal and Class III wells require mechanical integrity tests every five years.

All conventional Class II wells are inspected approximately every 11 to 12 weeks. In FFY 2011, the Division issued 57 notices of violation and administrative orders for conventional Class II, Class III, and Class II annular disposal wells. Eleven of the administrative orders were for annular disposal revocation or for suspension of Class II or Class III injection well operations. All of these MIT violations are considered Significant Non-Compliance (SNC), and these orders were a part of the Division's major enforcement activity in FFY 2011. The Division's field staff conducted inspections to ensure compliance with these administrative orders and any well in non-compliance was pursued with additional enforcement action.

In FFY 2011, the Division continued the data entry of all pertinent UIC Class II and Class III technical information into the RBDMS database system. All of the UIC field inspections are now being entered directly into the RBDMS database. Hard copies are made for the paper files. The Division also continued to develop and test an enforcement database that is tied to RBDMS system, providing easy access to all UIC technical and enforcement data in one database system. The Division is now e-mailing the UIC Class II Monthly Injection Well inventory list to all of the field staff and regional offices. This list is continually being maintained and updated by the UIC geologist. The Division continues to maintain all of the UIC files in the paper form in the UIC Section. Technical staff members maintained these files for reporting, compliance schedules, investigations, enforcement actions, and semi-annual reporting to US EPA Region V.

UIC personnel were involved in informal public meetings and occasionally were called upon to testify at hearings or court cases in FFY 2011. The Division of Oil and Gas Resources Management continued to participate in national conferences and meetings held by the Ground Water Protection Council (GWPC) during FFY 2012. In FFY 2011, Tom Tomastik served as a member of the GWPC's Water/Energy Division and as a member of the National CO2 Geosequestration and Hydraulic Fracturing workgroups.

The Division continues to train the new field staff regarding UIC inspections, mechanical integrity testing, and the other Standard Operating Procedures developed for the UIC Program.

**PERFORMANCE MEASURES AND OUTPUTS ESTIMATES FOR  
FFY 2012**

**Number of Permit Determinations**

	<b>1<sup>st</sup> Qtr.</b>	<b>2<sup>nd</sup> Qtr.</b>	<b>3<sup>rd</sup> Qtr.</b>	<b>4<sup>th</sup> Qtr.</b>
Saltwater Disposal Wells	3	3	3	2
Enhanced Oil Recovery	0	1	0	1
Annular Disposal Wells	0	2	2	2
Class III Wells	0	2	0	0

**Wells with Mechanical Integrity Tests**

SWD Wells	43	42	42	43
(represents reporting of one test per well per year only)				
EOR Wells	34	33	33	33
(represents reporting of one test per well per year only)				
Annular Disposal Wells	2	5	6	9
(represents wells scheduled for mechanical integrity testing. Wells will either be tested or have authorization revoked.)				
Class III Salt-Solution Mining Wells	2	1	6	6

**Number of Wells Inspected**

SWD Wells	43	42	42	43
EOR Wells	33	34	33	33
Annular Disposal (all inspections)	50	50	50	50
Class III Wells	13	13	12	11

**Estimated Number of Annular Disposal Wells that will Actually Perform a Mechanical Integrity Test**

2	3	4	4
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